

Title (en)
Device and method for detecting blurring of image

Title (de)
Vorrichtung und Verfahren zur Detektion von Bildschärfeverzerrung

Title (fr)
Dispositif et procédé de détection de flou d'image

Publication
EP 1457927 A3 20061129 (EN)

Application
EP 04002062 A 20040130

Priority
KR 20030006422 A 20030130

Abstract (en)
[origin: EP1457927A2] Disclosed is a device for deciding whether or not an image is blurred. The device comprises an input part for receiving an image; a block classification part for dividing the received image into blocks and classifying the divided blocks into character blocks and background blocks; a character block energy calculation part for calculating an average energy ratio of the character blocks; and a blurring detection part for calculating an average energy ratio of the character blocks and deciding whether or not the image is blurred by comparing the average energy ratio with a predetermined threshold.

IPC 8 full level
G06T 7/00 (2006.01); **G06K 9/00** (2006.01); **G06K 9/46** (2006.01); **G06T 5/00** (2006.01)

CPC (source: EP KR US)
G06T 7/00 (2013.01 - KR); **G06T 7/0002** (2013.01 - EP US); **G06T 7/42** (2016.12 - EP US); **G06V 10/993** (2022.01 - EP US);
G06T 2207/20021 (2013.01 - EP US); **G06T 2207/20052** (2013.01 - EP US); **G06T 2207/30168** (2013.01 - EP US);
G06T 2207/30176 (2013.01 - EP US)

Citation (search report)
• [Y] US 5920349 A 19990706 - OKINO TADASHI [JP], et al
• [A] US 5995657 A 19991130 - SUNAKAWA SHINICHI [JP]
• [Y] CHADDHA N ET AL: "Text segmentation in mixed-mode images", SIGNALS, SYSTEMS AND COMPUTERS, 1994. 1994 CONFERENCE RECORD OF THE TWENTY-EIGHTH ASILOMAR CONFERENCE ON PACIFIC GROVE, CA, USA 31 OCT.-2 NOV. 1994, LOS ALAMITOS, CA, USA, IEEE COMPUT. SOC, US, vol. 2, 31 October 1994 (1994-10-31), pages 1356 - 1361, XP010148798, ISBN: 0-8186-6405-3

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EP2577602A4; EP4088452A4; EP1870852A3; CN105184806A; WO2011153500A2; US11928793B2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

Designated extension state (EPC)
AL LT LV MK

DOCDB simple family (publication)
EP 1457927 A2 20040915; EP 1457927 A3 20061129; CN 100433047 C 20081112; CN 1525387 A 20040901; KR 100943595 B1 20100224;
KR 20040069869 A 20040806; US 2004252890 A1 20041216; US 7321690 B2 20080122

DOCDB simple family (application)
EP 04002062 A 20040130; CN 200410002555 A 20040130; KR 20030006422 A 20030130; US 76506904 A 20040128